

Amendments to the Claims

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

Claim 1 (Currently Amended): A negative feedback amplifier with a feedback resistor connected between an output terminal and an input terminal of an amplifier, ~~[[said]]~~ the amplifier being powered from a first power terminal and a second power terminal, ~~[[said]]~~ the negative feedback amplifier comprising:

a division node between a first resistor on an ~~[[said]]~~ input terminal ~~terminal's~~ side of the amplifier and a second resistor on an ~~[[said]]~~ output terminal ~~terminal's~~ side of the amplifier, the first and second resistors ~~[[which]]~~ together constitute said feedback resistor;

a first diode having a first electrode connected to said first power terminal, and a second electrode connected to said division node; and

a second diode having a first electrode connected to said second power terminal, and a second electrode connected to said division node.

Claim 2 (Original): The negative feedback amplifier according to claim 1, further comprising:

a third diode having a first electrode connected to said division node, and a

second electrode connected to said first power terminal; and

a fourth diode having a first electrode connected to said division node, and a second electrode connected to said second power terminal.

Claim 3 (Currently Amended): A negative feedback amplifier with a feedback resistor connected between an output terminal and an input terminal of an amplifier, ~~[[said]]~~ the amplifier being powered from a first power terminal and a second power terminal, ~~[[said]]~~ the negative feedback amplifier comprising:

a first division node and a second division node, said first ~~and second~~ division node provided between a first resistor and a second resistor, and said second division node provided between the second resistor and a third resistor ~~respectively~~, said first to third resistors being arranged from an ~~[[said]]~~ input terminal ~~terminal's side of the~~ amplifier to an ~~[[said]]~~ output terminal ~~terminal's side of the amplifier~~ in order, and together constituting said feedback resistor;

a first diode having a first electrode connected to said first power terminal, and a second electrode connected to said first division node;

a second diode having a first electrode connected to said second power terminal, and a second electrode connected to said first division node;

a third diode having a first electrode connected to said second division node, and a second electrode connected to said first power terminal; and

a fourth diode having a first electrode connected to said second division node,

and a second electrode connected to said second power terminal.

Claim 4 (Currently Amended): The negative feedback amplifier according to claim 1, wherein said diodes each comprise diode connected between said power terminal and said division node comprises a plurality of elements connected in series.

Claim 5 (Currently Amended): The negative feedback amplifier according to claim 2, wherein said diodes each comprise diode connected between said power terminal and said division node comprises a plurality of elements connected in series.

Claim 6 (Currently Amended): The negative feedback amplifier according to claim 3, wherein said diodes each comprise diode connected between said power terminal and said division node comprises a plurality of elements connected in series.

Claim 7 (Currently Amended): A negative feedback amplifier with a feedback resistor connected between an output terminal and an input terminal of an amplifier, ~~[[said]]~~ the amplifier being powered from a first power terminal and a second power terminal, ~~[[said]]~~ the negative feedback amplifier comprising:

a division node between a first resistor on an ~~[[said]]~~ input terminal ~~terminal's~~ side of the amplifier and a second resistor on ~~[[said]]~~ an output terminal ~~terminal's~~ side of the amplifier, the first and second resistors ~~[[which]]~~ together constitute said feedback

resistor;

a first diode having a first electrode connected to said first power terminal, and
a second electrode connected to a connection node;

a second diode having a first electrode connected to said second power
terminal, and a second electrode connected to said connection node; and

a third diode having a first electrode connected to said connection node, and a
second electrode connected to said division node.

Claim 8 (Currently Amended): A negative feedback amplifier with a feedback resistor
connected between an output terminal and an input terminal of an amplifier, ~~[[said]]~~ the
amplifier being powered from a first power terminal and a second power terminal,
~~[[said]]~~ the negative feedback amplifier comprising:

a first division node and a second division node, said first ~~and second~~ division
node ~~[[nodes]]~~ provided between a first resistor and a second resistor, and said second
division node provided between the second resistor and a third resistor ~~respectively~~,
said first to third resistors being arranged in order from ~~[[said]]~~ an input terminal
~~terminal's side of the amplifier~~ to ~~[[said]]~~ an output terminal ~~terminal's side of the~~
amplifier, and together constituting said feedback resistor;

a first diode having a first electrode connected to said first power terminal, and
a second electrode connected to a first connection node;

a second diode having a first electrode connected to said second power

terminal, and a second electrode connected to said first connection node;

a third diode having a first electrode connected to said first connection node,
and a second electrode connected to said first division node;

a fourth diode having a first electrode connected to a second connection node,
and a second electrode connected to said first power terminal;

a fifth diode having a first electrode connected to said second connection node,
and a second electrode connected to said second power terminal; and

a sixth diode having a first electrode connected to said second division node,
and a second electrode connected to said second connection node.

Claim 9 (Currently Amended): The negative feedback amplifier according to claim 7,
wherein said first and second diodes each comprise ~~diode connected between said~~
~~power terminal and said connection node comprises~~ a plurality of elements connected
in series.

Claim 10 (Currently Amended): The negative feedback amplifier according to claim 8,
wherein said first, second, fourth and fifth diodes each comprise ~~diode connected~~
~~between said power terminal and said connection node comprises~~ a plurality of
elements connected in series.

Claim 11 (Currently Amended): The negative feedback amplifier according to claim 1,

wherein said first electrode of each of said diodes is an anode, and said second electrode of each of said diodes thereof is a cathode.

Claim 12 (Currently Amended): The negative feedback amplifier according to claim 3, wherein said first electrode of each of said diodes is an anode, and said second electrode of each of said diodes thereof is a cathode.

Claim 13 (Currently Amended): The negative feedback amplifier according to claim 7, wherein said first electrode of each of said diodes is an anode, and said second electrode of each of said diodes thereof is a cathode.

Claim 14 (Currently Amended): The negative feedback amplifier according to claim 8, wherein said first electrode of each of said diodes is an anode, and said second electrode of each of said diodes thereof is a cathode.

Claim 15 (Currently Amended): The negative feedback amplifier according to claim 1, wherein ~~[[said]]~~ the amplifier is composed of a high-electron-mobility transistor, and each of said diodes is composed of a Schottky diode formed in ~~[[the]]~~ a same process as ~~[[said]]~~ the amplifier.

Claim 16 (Currently Amended): The negative feedback amplifier according to claim 3,

wherein ~~[[said]]~~ the amplifier is composed of a high-electron-mobility transistor, and each of said diodes is composed of a Schottky diode formed in ~~[[the]]~~ a same process as ~~[[said]]~~ the amplifier.

Claim 17 (Currently Amended): The negative feedback amplifier according to claim 7, wherein ~~[[said]]~~ the amplifier is composed of a high-electron-mobility transistor, and each of said diodes is composed of a Schottky diode formed in ~~[[the]]~~ a same process as ~~[[said]]~~ the amplifier.

Claim 18 (Currently Amended): The negative feedback amplifier according to claim 8, wherein ~~[[said]]~~ the amplifier is composed of a high-electron-mobility transistor, and each of said diodes is composed of a Schottky diode formed in ~~[[the]]~~ a same process as ~~[[said]]~~ the amplifier.

Claim 19 (Original): The negative feedback amplifier according to claim 1, wherein resistance of said first resistor is 10 to 100Ω.

Claim 20 (Original): The negative feedback amplifier according to claim 3, wherein resistance of said first resistor is 10 to 100Ω.

Claim 21 (Original): The negative feedback amplifier according to claim 7, wherein

resistance of said first resistor is 10 to 100Ω.

Claim 22 (Original): The negative feedback amplifier according to claim 8, wherein
resistance of said first resistor is 10 to 100Ω.